

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended). A ~~compositionally uniform~~ nanomaterial comprising chalcogenide ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 ~~and less than 1,000,000~~ than 5.
2. (Original). The nanomaterial of claim 1 wherein the nanomaterial is non-stoichiometric.
3. (Original). The nanomaterial of claim 1 wherein the nanomaterial is stoichiometric.
4. (Withdrawn-Currently Amended). A metallic nanomaterial ~~with~~ having an aspect ratio greater than 2 ~~and less than 1,000,000~~.
5. (Original). A product comprising nanomaterial of claim 1.
6. (Withdrawn-Currently Amended). The metallic nanomaterial of claim 4 wherein the nanomaterial comprises an element selected from the group: silver, gold, platinum, palladium, ruthenium, copper, tantalum, niobium, indium and rare earth elements.
7. (Withdrawn). A product comprising nanomaterial of claim 4.
8. (Currently Amended). An inorganic nanomaterial comprising nitrogen ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 ~~and less than 1,000,000~~.
9. (Original). A product comprising nanomaterial of claim 8.
10. (Currently Amended). An non-stoichiometric nanomaterial comprising oxygen wherein the nanomaterial has an aspect ratio greater than 2 ~~and less than 1,000,000~~.
11. (Original). A product comprising nanomaterial of claim 10.
12. (Currently Amended). An inorganic nanomaterial comprising phosphorus ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 ~~and less than 1,000,000~~.

13. (Original). A product comprising nanomaterial of claim 12.
14. (Currently Amended). A polymeric nanomaterial ~~with~~ having an aspect ratio greater than 2 ~~and less than 1,000,000~~.
15. (Original). A product comprising nanomaterial of claim 14.
16. (Currently Amended). A non-oxide nanomaterial ~~with~~ having plate like morphology and an aspect ratio greater than 5.
17. (Original). The non-oxide nanomaterial of claim 16 wherein the nanomaterial is non-stoichiometric.
18. (Original). A product comprising the nanomaterial of claim 16.
19. (Currently Amended). A nanomaterial with faceted morphology ~~with~~ having an aspect ratio greater ~~than 2 and less than 1,000,000~~ than 5.
20. (Original). A product comprising the nanomaterial of claim 19.
21. (Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises sulfur.
22. (Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises selenium.
23. (Withdrawn). The nanomaterial of claim 1 wherein the chalcogenide comprises tellurium.
24. (Withdrawn). The nanomaterial of claim 4 wherein the nanomaterial comprises two or more elements.
25. (Withdrawn). The nanomaterial of claim 8 wherein the nanomaterial comprises three or more elements.
26. (Withdrawn). The nanomaterial of claim 10 wherein the nanomaterial comprises three or more elements.

27. (Withdrawn). The nanomaterial of claim 12 wherein the nanomaterial comprises three or more elements.

28. (Withdrawn). The nanomaterial of claim 1 wherein the surface of the nanomaterial has been reacted with a precursor.

29. (Withdrawn). The nanomaterial of claim 4 wherein the surface of the nanomaterial has been reacted with a precursor.

30. (Withdrawn). The nanomaterial of claim 8 wherein the surface of the nanomaterial has been reacted with a precursor.

31. (Withdrawn). The nanomaterial of claim 10 wherein the surface of the nanomaterial has been reacted with a precursor.

32. (Withdrawn). The nanomaterial of claim 12 wherein the surface of the nanomaterial has been reacted with a precursor.

33. (Currently Amended). A ~~compositionally uniform~~ nanomaterial comprising chalcogenide ~~with~~ wherein the nanomaterial has an aspect ratio greater than ~~[[2]]~~ 5 and less than 25.

34. (Previously Presented). A product comprising nanomaterial of claim 33.

35. (Currently Amended). An inorganic nanomaterial comprising nitrogen ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

36. (Previously Presented). A product comprising nanomaterial of claim 35.

37. (Previously Presented). A non-stoichiometric nanomaterial comprising oxygen wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

38. (Previously Presented). A product comprising nanomaterial of claim 37.

39. (Currently Amended). An inorganic nanomaterial comprising phosphorus ~~with~~ wherein the nanomaterial has an aspect ratio greater than 2 and less than 25.

40. (Previously Presented). A product comprising nanomaterial of claim 39.

41. (Previously Presented). A polymeric nanomaterial with aspect ratio greater than 2 and less than 25.

42. (Previously Presented). A product comprising nanomaterial of claim 41.

43. (Previously Presented). A nanomaterial with faceted morphology with aspect ratio greater than 2 and less than 25.

44. (Previously Presented). A product comprising the nanomaterial of claim 43.